

# Fact Sheet

National Institute of Biomedical Imaging and Bioengineering

## OPTICAL IMAGING AND SPECTROSCOPY PROGRAM AREA



### NIBIB CONTACT

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## Introduction

The National Institute of Biomedical Imaging and Bioengineering, the newest component of the National Institutes of Health, leads the development and accelerates the application of biomedical technologies. The Institute is committed to integrating the physical and engineering sciences with the life sciences to advance basic research and medical care.

The Optical Imaging and Spectroscopy Program supports the development and biomedical application of optical imaging, microscopy, and spectroscopy techniques; and development and biomedical application of optical imaging contrasts. Examples of supported research areas include fluorescence imaging, bioluminescence imaging, OCT, SHG, IR imaging, diffuse optical tomography, optical microscopy and spectroscopy, confocal microscopy, multiphoton microscopy, flow cytometry, development of innovative light sources and fiber optic imaging devices. This program focuses on supporting the research, development, and biomedical application of microscopy and macroscopic imaging at the tissue, organ, and systems level.

## Relevant Study Sections

- Biomedical Imaging Technology (BMIT)  
(<http://cms.csr.nih.gov/PeerReviewMeetings/CSRIRGDescription/SBIBIRG/BMIT.htm>)
- Medical Imaging (MEDI)  
(<http://cms.csr.nih.gov/PeerReviewMeetings/CSRIRGDescription/SBIBIRG/MEDI.htm>)
- Microscopic Imaging (MI)  
(<http://cms.csr.nih.gov/PeerReviewMeetings/CSRIRGDescription/BSTIRG/MI.htm>)
- Small Business Biomedical Imaging (SBMI)  
(<http://cms.csr.nih.gov/PeerReviewMeetings/CSRIRGDescription/SBIBIRG/SBMI.htm>)

A complete listing of review groups and study sections can be found at the Center for Scientific Review (<http://cms.csr.nih.gov/PeerReviewMeetings/>).

For general questions about the NIH grants process, please visit the NIBIB Grant Application Process page (<http://www.nibib1.nih.gov/publicPage.cfm?pageID=294>).

Program staff recommend that applicants include a cover letter listing areas of scientific expertise needed to review the application and how the expertise should be balanced (please do not include names), or potential study section assignments. Questions may be directed to the NIBIB contact mentioned above.

### Funding Opportunities

The NIBIB supports a coordinated program of research and research training that can be applied across a broad spectrum of biological processes, disorders, and diseases. Potential applicants for NIBIB grants are strongly encouraged to discuss their proposed projects with the scientific staff of the Institute prior to preparing an application. Individuals can obtain guidance on the suitability of the project and the most appropriate funding mechanism or opportunity for the proposed research. The Institute supports research through a variety of NIH grant mechanisms such as:

- **R01** - Research project grant to support investigator-initiated research projects.
- **R03** - Research grant to support projects requiring small amounts of funding for limited periods of time.
- **R13** - Conference grant to support high-quality scientific meetings, conferences, and workshops.
- **R21** - Exploratory and development grant to support projects that explore novel concepts.
- **R43/R44 and R41/R42** - Small Business Innovation Research and Small Business Technology Transfer awards that support exploration of ideas that may ultimately lead to commercial products or services.

Specific areas of scientific interest are publicized through program announcements (PA) and requests for applications (RFA). Additional information on current opportunities available at the NIBIB can be found by searching the Funding Opportunities Database on the NIBIB website at:

<http://www.nibib.nih.gov/publicPage.cfm?Section=funding&Action=Search>.

### NIH Roadmap Opportunities

The NIH Roadmap is a series of far-reaching initiatives designed to build on the progress in medical research achieved through the recent doubling of the NIH budget. The Roadmap focuses on three main areas: new pathways to discovery, research teams of the future, and re-engineering the clinical research enterprise.

Additional information on NIH Roadmap initiatives can be found on the NIH website at:

<http://nihroadmap.nih.gov>.

### Looking to the Future

New and exciting programs are under development at the NIBIB. Up-to-date information on funding opportunities, workshops, and conferences can be found on the NIBIB website.

### NIBIB Contacts

You may contact NIBIB program staff with your questions about funding opportunities or the application process. We welcome the opportunity to speak with potential applicants about the Institute's programs. Areas of scientific coverage for each member of the program staff can be found on the NIBIB website at:

<http://www.nibib.nih.gov/publicPage.cfm?pageID=2429>.